USER MANUAL

GOLDMUND MIMESIS 37S
Analog Preamplifier

Thank you for purchasing the Goldmund MIMESIS 37S ANALOG PREAMPLIFIER. Please take some time to read this manual. It will provide you with useful information to make your pleasure of listening to the MIMESIS 37S even higher.

INTRODUCTION

GOLDMUND MIMESIS 37S Analog Preamplifier

Goldmund was founded in 1978 and has ever since been dedicated to the accurate reproduction of sound and image.

At Goldmund, we strive to lead in the creation, development and manufacture of the industry's most advanced technologies, including audio and video systems, home-networking and music distribution.

The guiding principle at Goldmund is to produce a precise sound with the least possible loss of quality through the different stages. Goldmund will never adopt a technology before it is sufficiently developed to satisfy the high quality standards we set. This is why Goldmund has often rejected mainstream technologies and developed its own.

Table of Contents

1	SETTING UP THE MIMESIS 37S	5
2	POWER SUPPLY	9
3	CONTROLS & UTILIZATION	10
4	SOUND QUALITY OPTIMIZATION	11
5	SAFETY FEATURES & MAINTENANCE	12
6	TECHNICAL SPECIFICATIONS	13

W A R N I N G !

No connection or manipulation may be made before reading these instructions and observing all safety warnings.

This extremely high quality Preamplifier possesses new technical features which are or will become necessary for accurate power amplification of high quality analog sources.

Observe general electrical safety precautions particularly with regard to avoiding water, moisture and heat. To reduce the risk of electric shock do not remove the covers and refer servicing to qualified personnel.

The installation instructions must be carried out in full and the mentioned precautions taken to provide the satisfaction the Mimesis 37S is designed to provide and to avoid jeopardizing personal and equipment safety or impairing performance.

Nevertheless, in the Mimesis 37S Preamplifier, Goldmund engineering excellence delivers extreme performance in a simple and convenient format that we hope you will enjoy for many years to come.

1 SETTING UP THE MIMESIS 37S

1.1 PRELIMINARIES

For exacting technicians, musicians, and all high-fidelity music purists who demand the very best in reproduction, we strongly recommend the use of top quality power amplifiers with the Mimesis 37S. Most of the analog signal integrity delivered by the preamplifier can be destroyed by using lower quality amplifiers.

For perfect analog amplification, Goldmund recommends the Goldmund Telos series of power amplifiers.

The connection between the analog sources and the preamplifier as well as between the preamplifier and the power amplifiers are also critical. Ultra low reflection interconnect cables are absolutely mandatory to retain the time integrity that the preamplifier is designed to provide. In all typical cases Goldmund recommends using the special Goldmund Lineal interconnect cables.

1.2 UNPACKING

You will find within the two GOLDMUND MIMESIS 37 S transit boxes:
- The Analog Preamplifier.
- The Power Supply Unit.
- Preamplifier to Power Supply cable.
- The mains powercord.
- The remote control and batteries.
- This manual.

Please keep the packaging in case you need to transport the MIMESIS 37S any time in the future.

This packaging has been designed specifically to protect the MIMESIS 37S in transit. Use of alternative packaging is likely to result in damage, invalidating warranty cover.

1 SETTING UP THE MIMESIS 37S (Ctd.)

1.3 CHOICE OF PREAMPLIFIER LOCATION

The Goldmund Mimesis 37S preamplifier generates a significant amount of heat. It is necessary to allow adequate ventilation for proper cooling of the heat sinks. Avoid any location which is not properly ventilated. Avoid stacking equipment and do not locate the preamplifier close to equipment that is sensitive to temperature.

The power unit has been especially designed to minimize transformer vibration effects on the audio circuits. One consequence of this strategy is that the power supply unit is physically separate, connected by only the 150mm cabling. The power supply and preamplifier should be located as far apart as the cabling allows. The preamplifier should ideally not be located above the power supply. The power supply most certainly should never be located above the preamplifier as this would force transformer vibration evacuation through the audio circuits on its way to ground.

The power supply also generates a significant amount of heat and the ventilation requirements noted above also apply.

The preamplifier has been designed with four adjustable conical feet. These are used to ensure proper vibration transmission to the preamplifier support in order to evacuate all detrimental vibrations inside the unit, following the famous Goldmund "Mechanical Grounding" principle. Depending on the flatness of the chosen location, you may have to adjust one or more of these feet.

1 SETTING UP THE MIMESIS 37S (Ctd.)

1.4 LINE VOLTAGE ADJUSTMENT

Warning! If the line voltage provided is not appropriate as supplied, please consult your dealer.

ATTENTION: At the 220V position, the Goldmund Mimesis 37S preamplifier will function properly for main line voltages between 200V and 240V. At the 110V position, the main line must deliver between 105 and 125V. If your main supply operates out of these tolerances, please consult your Goldmund dealer.

This fuse is located on the power cord receptacle and can be accessed by raising the cover using a small screwdriver when the power cord has been removed (ensuring power is disconnected before handling). Use a 2.5A slow-blow fuse.

Warning! Always ensure that the fuse cover is fitted. Fuses are for fire prevention and do not protect against risk of electric shock.

1.5 CONNECTIONS

Warning! Always remember that a plug with bared connectors is dangerous if in contact with a live socket. This appliance must be earthed.

Connect the non-rewireable power cord supplied to the back of the power supply and plug it into the nearest wall plug. Use only a 3 lugs grounded plug, for safety and noise reasons. Replacement mains leads can be obtained from your Goldmund retailer.

To get the best sound of the preamplifier, avoid any multiple plugs or extension cords.

1 SETTING UP THE MIMESIS 37S (Ctd.)

1.5 CONNECTIONS (Ctd.)

Warning! Take care to always handle the cable by the connectors. Never twist the cable excessively or attempt to connect or disconnect the connector by handling the cable body in place of the connector.

Connect the cabling from the power supply output to the preamplifier input point labeled “Power”.

Warning! The next stage in setting up your Mimesis 37S is to connect your sources, power amplifiers and other peripheral devices. All devices should be disconnected from mains power until safe.

Connect the preamp analog output interconnects to the power amp using the RCA female sockets labeled “analog outputs”.

Connect the interconnect cables from source devices to the line inputs numbered 1 to 7 labeled ‘IN1’ to ‘IN7’.

Connect tape machines to any inputs and to the Tape output plugs (except INS, no tape out).

2 POWER SUPPLY

The main POWER switch is located on the back panel of the Goldmund Mimesis 37S power supply. In regular use, this switch should be left permanently ON and the circuits of the preamplifier activated or deactivated using the STANDBY ON/OFF.

When the POWER switch is switched ON, the preamp will become operative after few seconds delay to ensure proper stabilization of all the circuitry and avoid any unwanted noise. After this delay, the output of the preamplifier is connected to the power amplifier.

The preamplifier can be powered off by switching the POWER switch to the OFF position. A special safety circuit switches the preamp to MUTE to avoid any disturbance reaching the power amplifier and the speakers, even if the preamplifier is disconnected from the mains supply by accident. However, to optimize the sound quality of the preamplifier and ensure the reliability, the M37S should remain powered ON continuously and is only deactivated using the Standby function.

3 CONTROLS & UTILIZATION

The Goldmund Mimesis 37S is designed to capture, control, shape and nurture the fragile source inputs, supporting adjustment of volume and balance to deliver your desired output signal. The primary control functions supporting these processes are outlined below.

3.1 STANDBY

To activate stand by mode, use the remote control

3.2 INPUT SELECTION

To select the source you want to listen to, use the left-hand rotary switch or use the remote control.

3.3 VOLUME ADJUSTMENT

The right-hand volume level adjustment knob (⑦) is used to adjust VOLUME. If volume is set to a value of zero, outputs will be muted.
You can use also the remote Control.

3.4 BALANCE ADJUSTMENT

Balance adjustment by using the Remote Control.

3.5 MUTE

Press the MUTE/PWR button (③) to mute output on the Remote Control.

4 SOUND QUALITY OPTIMIZATION

4.1 WARM-UP SONIC EFFECT

If the preamplifier has been left un-powered for some time, the optimum sound quality may only be attained after many hours. The critical circuits have to warm up to around +55 degrees Celsius (+131 degrees Fahrenheit) before achieving their optimal performances. This is why Goldmund recommends that the MIMESIS 37S is always powered on.

4.2 ABSOLUTE PHASE

Your Mimesis 37S preamplifier has an absolute phase inverter switch.

Absolute phase optimization can be difficult to achieve with CD's since at the current state of the technology, the phase coherency of this source is not sufficient to allow a sufficient difference between the two positions.

Many vinyl recordings are made without care for the absolute phase and different LP's can have different optimum positions. Trial and error is often therefore necessary.

4.3 GOLDMUND “MECHANICAL GROUNDING”

In the Goldmund Mimesis 22 Signature edition preamplifier, Goldmund has implemented its renowned construction method to provide an optimized vibration evacuation path.

To get all the benefits of this improvement, the MIMESIS 37S must be located on a very rigid support, directly coupled to the building. Avoid any decoupling material. If carpet decouples the preamplifier and ground, use pin-point supports to couple the furniture to the floor.

5 SAFETY FEATURES & MAINTENANCE

5.1 PROTECTION CIRCUIT

The Goldmund Mimesis 37S preamplifier uses a special protection circuit to protect the power amplifier and the speakers against a power supply failure or AC shut-down of the preamplifier.

5.2 MAINTENANCE

To clean your Mimesis use only a soft, clean, dry or slightly damp cloth. Avoid using domestic cleaning products.

Warning! Always turn the power off before cleaning your preamplifier.

There are no user serviceable parts inside the Mimesis 37S. Unauthorized servicing or alteration invalidates the manufacturer's warranty.

All inquiries relating to product servicing and operation should be referred to the local authorized retailer supplying and supporting your Goldmund equipment.

6 TECHNICAL SPECIFICATIONS

INPUT

- Input impedance: 39 kOhms.
- Maximum input level (balanced) : 9.6 V RMS.
- Maximum input level (unbalanced): 4.8 V RMS.
- Separated input level adjustment for each of the 7 line inputs: -12 to 12 dB.

OUTPUT

- Output impedance: 50 Ohms.
- Maximum output level (balanced) : 19.2 V RMS.
- Maximum output level (unbalanced): 9.6 V RMS.

FREQUENCY RESPONSE

- These values for any level to maximum output level
- +/- 0 dB, 20 - 20 kHz.
- +/- 3 dB, 0.2 – 900kHz.

GROUP DELAY

- Propagation delay <300 ns stable with frequency from DC to 200 kHz.

DISTORTION

With 1 V rms output level, 80 KHz measurement bandwidth, 600 ohms termination impedance

- - THD unbalanced in to unbalanced out 0.002%
- flat with frequency
- - THD balanced in to balanced out 0.001%
- flat with frequency
- - IMD unbalanced in to unbalanced out 0.002%
- - IMD balanced in to balanced out 0.001%

6 TECHNICAL SPECIFICATIONS (Ctd.)

SPEED

- Slew rate of the amplification stages: 200V/us
- Rise time: < 400 ns.

CROSSTALK

- - Separation: > 105 dB between channels. (20Hz – 20kHz)

NOISE

- Signal-to noise ratio on line input: > 120 dB (0.01 Hz - 10 Mhz).
- Weighted ASA A: > 130 dB.

OPERATING TEMPERATURE

- Room temperature: -30 to +40 degrees Celsius
- Internal temperature: +45 to +70 degrees Celsius

POWER

- Nominal line voltage: 117 or 234 V.
- Input voltage range: +/- 10 %.
- Maximum power consumption: 70 W.

GROUNDING

- Separated ground and earth signal.
- Connection optional between earth and ground to cancel all ground loops.

SAFETY FEATURES

- Automatic switching to MUTING if the AC line drops or is interrupted.
- Automatic protection against tape loops.

6 TECHNICAL SPECIFICATIONS (Ctd.)

FRONT PANEL CONTROLS

- MUTING/POWER switch with Led control.
- VOLUME control.
- BALANCE control.
- RECORD/MENU switch.
- PHASE/EDIT switch.
    - 7 INPUT CONTROL switches (with Led control).

REAR PANEL CONNECTORS AND CONTROLS

- Power connector.
- Earthing post (yellow-green).
- Output connectors RCA (right and left).
- Output connectors RCA (right and left) for Tape 1 and Tape 2.
- Signal grounding post (black).
- Input connectors RCA (right and left) for Tape and line inputs.
- Link float.
- RS232 Connector.

POWER SUPPLY CONTROLS

- POWER cord socket (3 lugs).
- MAINS FUSE (2.5A slow-blow).
- VOLTAGE SELECTOR 110/220 V.

SIZE AND WEIGHT

Preamplifier

- 440 W x 380 D x 90 H. (mm)

Power Supply

- 440 W x 280 D x 60 H. (mm).

Total Weight: 15 kg

WARRANTY

- 3 years, parts and labor.